

ABSTRACT

A combination fill and safety valve has a cap that accepts and incorporates an advanced safety valve with an incorporated inflation/deflation valve stopper replacement. In a preferred embodiment, the valve is comprised of a valve cup and a modified screw
5 cap with an integrated advanced safety valve/stopper that is inserted into the hole in the valve cup and held in place by the modified screw cap. In a preferred embodiment, the advanced safety valve/stopper is inserted into the fill valve hole in the screw valve chassis of the valve cup. The advanced safety valve/stopper fits snugly against the lip of the valve chassis in order to provide an airtight seal when the screw cap is tightened. The
10 advanced safety valve/stopper also comprises a safety cap that fits snugly into the safety valve hole. The modified screw cap has a hole through which the safety cap protrudes when the fill valve is closed, in order to allow opening and closing of the safety valve. To initiate operation as an inflation/deflation valve, the modified safety cap is unscrewed and the advanced safety valve/stopper is removed from the valve hole in the valve cup,
15 thereby allowing air to be freely passed into and/or out of the inflatable through the valve hole. To initiate operation as a safety valve, the cap of the advanced safety/valve stopper is removed from the safety valve hole through which air enters and/or is made to exit the inflatable through an interior check valve.